

Amendments to the Specification:

The additions have been indicated by underlining.

Please replace the paragraph on page 43 lines 7-14 with the following amended paragraph:

Figure 7 shows the homology of Drosophila aralar 1 (Gadfly Accession Number CG2139) to human solute carrier family 25, members 11 and 12.

Figure 7A shows the BLASTP search results for the aralar 1 gene product (Query) with the two best human homologous matches. (Sbjct) [BLAST match to XP-010876.3 – Query: SEQ ID NO: 16; Sbjct: SEQ ID NO: 17 – BLAST match to NP_055066.1 – Query: SEQ ID NO: 18; Sbjct: SEQ ID NO: 19].

Figure 7B shows the comparison of human and Drosophila proteins. ‘alaral 1 Dm’ [SEQ ID NO: 20] refers to Drosophila protein encoded by aralar 1, ‘SLC25A12 Hs’ [SEQ ID NO: 21] refers to human solute carrier family 25, member 12, and ‘SLC25A13 Hs’ [SEQ ID NO: 22] refers to human solute carrier family 25, member 13.

Please replace the paragraph on page 43 lines 16-25 with the following amended paragraph:

Figure 8 shows the expression of the aralar 1 homologs in mammalian tissue.

Figure 8A shows the real-time PCR analysis of solute carrier family 25, member 12 (Slc25a12) expression in wild type mouse tissues (DCt Pancreas = 18,94).

Figure 8B shows the real-time PCR analysis of Slc25a12 expression in different mouse models.

Figure 8C shows the real-time PCR analysis of solute carrier family 25, member 13 (Slc25a13) expression in wild type mouse tissues (DCt Pancreas = 20,41).

Figure 8D shows the real-time PCR analysis of Slc25a13 expression in different mouse

models.

Please replace the paragraph on page 44 lines 14-21 with the following amended paragraph:

Figure 12 shows the expression of how homologs in mammalian (human) tissue.

Figure 12A shows the quantitative analysis of QUAKING 6 (QKI-6) expression in human abdominal adipocyte cells, during the differentiation from preadipocytes to mature adipocytes.

Figure 12B shows the quantitative analysis of RNA binding protein HQK-7B expression in human abdominal adipocyte cells, during the differentiation from preadipocytes to mature adipocytes.

Please replace the paragraph on page 44 lines 14-21 with the following amended paragraph:

Figure 16 shows the expression of the CG9373 homolog in mammalian (human) tissues.

Figure 16A shows the real-time PCR analysis of myelin gene expression factor -2 (MEF-2) expression in wild type mouse tissues (DCt Pancreas = 20,90).

Figure 16B shows the real-time PCR analysis of MEF-2 expression in different mouse models.

Figure 16C shows the real-time PCR analysis of MEF-2 expression in mice fed with a high fat diet compared to mice fed with a standard diet.

Please replace the paragraph which spans page 45 lines 31-32 through page 46 lines 1-7 with the following amended paragraph:

Figure 19 shows the homology of Drosophila *cpo* (Gadfly Accession Number CG31243) to human RNA binding proteins with multiple splicing.

Figure 19A shows the comparison of human and Drosophila proteins. 'cpo Dm' [SEQ ID NO: 1] refers to Drosophila protein encoded by *cpo*, 'NP_006858 Hs' [SEQ ID NO: 63] refers to human RNA binding protein with multiple splicing (RBPMS), and 'IPI001611' [SEQ ID NO: 64] refers to human RNA binding with multiple splicing (RBPMS) family member.

Figure 19B shows the amino acid sequence encoded by Drosophila *cpo* gene (GadFly Accession Number CG31243, SEQ ID NO: 1).